(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 19 May 2005 (19.05.2005)

PCT

(10) International Publication Number WO 2005/045041 A2

- (51) International Patent Classification⁷: C12N 15/11, C12P 19/34, C07H 21/02, 21/04, A01N 43/04, A61K 31/713
- (21) International Application Number:

PCT/US2004/027404

- (22) International Filing Date: 19 August 2004 (19.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

10/693,059	23 October 2003 (23.10.2003)	US
10/720,448	24 November 2003 (24.11.2003)	US
10/727,780	3 December 2003 (03.12.2003)	US
10/757,803	14 January 2004 (14.01.2004)	US
60/543,480	10 February 2004 (10.02.2004)	US
10/780,447	13 February 2004 (13.02.2004)	US
10/826,966	16 April 2004 (16.04.2004)	US
PCT/US04/13456	30 April 2004 (30.04.2004)	US
PCT/US04/16390	24 May 2004 (24.05.2004)	US
10/864,044	9 June 2004 (09.06.2004)	US

- (71) Applicant (for all designated States except US): SIRNA THERAPEUTICS, INC. [US/US]; 2950 Wilderness Place, Boulder, CO 80301 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MCSWIGGEN, James [US/US]; 4866 Franklin Drive, Boulder, CO 80301

- (US). POLISKY, Barry [US/US]; 449 Mountain View Road, Boulder, CO 80302 (US).
- (74) Agent: TERPSTRA, Anita, J.; McDonnell Boehnen Hulbert & Berghoff LLP, 300 South Wacker Drive, Suite 3200, Chicago, IL 60606 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RNA INTERFERENCE MEDIATED INHIBITION OF CHOLESTERYL ESTER TRANSFER PROTEIN (CETP) GENE EXPRESSION USING SHORT INTERFERING NUCLEIC ACID (SINA)

(57) Abstract: This invention relates to compounds, compositions, and methods useful for modulating cholesteryl ester transfer protein (CETP) gene expression using short interfering nucleic acid (siNA) molecules. This invention also relates to compounds, compositions, and methods useful for modulating the expression and activity of other genes involved in pathways of CETP gene expression and/or activity by RNA interference (RNAi) using small nucleic acid molecules. In particular, the instant invention features small nucleic acid molecules, such as short interfering nucleic acid (siNA), short interfering RNA (siRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA), and short hairpin RNA (shRNA) molecules and methods used to modulate the expression of CETP genes.

